Amendments to the Specification:

Please replace the paragraph beginning at page 1, line 1 with the following:

This application claims priority from U.S. Provisional Application Serial No. 60/425,204, filed November 8, 2002, and from International Application PCT/DK03/00763, filed November 7, 2003, each of which is hereby incorporated by reference in its entirety.

Please replace the paragraph beginning at page 4, line 12 with the following (please note that the text on page 4, line 21 "tAPPAHGVtSAPDTRPAPGstAPP" has not been added by way of this amendment. This text was underlined in the specification as filed and it should be underlined in the unmarked version of this paragraph) :

One example of this is the glycosylation of the cancer-associated mucin MUC1. MUC1 contains a tandem repeat O-glycosylated region of 20 residues (HGVTSAPDTRPAPGSTAPPA) (SEQ ID NO: 1) with five potential O-glycosylation sites. GalNAc-T1, -T2, and -T3 can initiate glycosylation of the MUC1 tandem repeat and incorporate at only three sites (HGVtSAPDTRPAPGstAPPA, GalNAc attachment sites in lower-case). GalNAc-T4 is unique in that it is the only GalNAc-transferase isoform identified so far that can complete the O-glycan attachment to all five acceptor sites in the 20 amino acid tandem repeat sequence of the breast cancer associated mucin, MUC1. GalNAc-T4 transfers GalNAc to at least two sites not used by other GalNAc-transferase isoforms on the GalNAc$_4$TAP24 glycopeptide (tAPPAHGVtSAPDTRPAPGstAPP, (SEQ ID NO: 2) GalNAc attachment sites in lower case) [10]. An activity such as that exhibited by GalNAc-T4 appears to be required for production of the glycoform of MUC1 expressed by cancer cells where all potential

sites are glycosylated [12]. Normal MUC1 from lactating mammary glands has approximately 2.6 O-glycans per repeat [13] and MUC1 derived from the cancer cell line T47D has 4.8 O-glycans per repeat [12]. The cancer-associated form of MUC1 is therefore associated with higher density of O-glycan occupancy and this is accomplished by a GalNAc-transferase activity identical to or similar to that of GalNAc-T4.

Please replace the paragraph beginning at page 11, line 21 with the following:

Figure 2 is a multiple sequence alignment (ClustalW) of putative lectin domains derived from 16 human polypeptide GalNAc-transferases. ~~Potitions~~ Positions of conserved motifs CLD and QxW in the α, β, and γ repeats are indicated. The numbering indicated in the margins reflects numbering of the analysed sequence region of each GalNAc-transferase. Conserved residues are indicated by black ~~box'ing~~ boxing. (SEQ ID NO: 3-18)

Please replace the paragraph beginning at page 28, line 28 with the following:

Expression to produce functional lectin domains of polypeptide GalNAc-transferases without the catalytic unit (or activity) can be carried out in any number of conventional expression systems familiar to those skilled in the art. In one embodiment, GalNAc-transferase lectins are expressed in a secreted soluble form, which can be recovered from the culture medium. Such secreted soluble forms lack the N-terminal cytoplasmic tail, transmembrane retention sequence, stem region and the catalytic unit. The boundaries of the catalytic units and lectin domains are defined by multiple sequence alignments and experimentation of lectin binding activity (multiple sequence alignment analysis of the C-terminal sequences polypeptide GalNAc-transferases including the most C-terminal boundaries of the catalytic domains and the entire lectin domains shown in Figure 2). The boundaries cannot be clearly defined but the most C-terminal well-conserved sequence motif of the catalytic units (WYLENVYP) (SEQ ID NO: 19) can be excluded from the lectin domains. Parts of or the entire catalytic domains may be included to produce

functional lectin domains, and inclusion of inactivating mutations in the catalytic units (e.g. mutations in the DxH motif important for donor substrate binding, or residues important for acceptor substrate binding [4]) may be used to avoid additional binding activity mediated through the catalytic units. In another embodiment, host cells (e.g. CHO cells) are engineered to express full coding polypeptide GalNAc-transferases with or without mutations in their catalytic units and binding mediated through lectin domains are detremiend in vivo in host cells.

Please replace the paragraph beginning at page 48, line 21 with the following:

Polypeptide GalNAc-transferases are highly conserved throughout evolution. Orthologous relationships can be defined from man to Drosophila, 48 [48] and ortholgous members of all human polypetide GalNAc-transferase isoforms are clearly identifiable in mouse and rats, and likely all mammals.

Please replace the paragraph beginning at page 48, line 25 with the following:

Polypeptide GalNAc-transferases are predicted to be type II transmembrane Golgi-resident proteins with a domain structure depicted in Figure 1 2 [2]. The N-terminal cytoplasmic tail, the hydrophic transmembrane signal sequence, and the stem region may be involved in directing Golgi-localization 47 [47]. The catalytic unit of the enzymes is approximately 300-350 amino acid residues and highly conserved in primary sequence among isoforms and also throughout evolution of the gene family 3,48 [3,48]. The C-terminal region of approximately 130 amino acids exhibits similarity with the galactose binding lectin, ricin. This region show little sequence similarity among isoforms and is poorly conserved in evolution 3 [3].

Please replace the Table beginning at page 50, with the following:

TABLE I. Primers used for PCR of soluble secreted GalNAc-transferase expression constructs.

GalNAc-T1:
EBHC121H: 5'-GCGGGATCCAGGACTTCCTGCTGGAGATG-3' (SEQ ID NO: 20)
EBHC107B: 5'-GCGGATCCTCAGAATATTTCTGGAAGGG-3' (SEQ ID NO: 21)

GalNAc-T2:
EBHC75D: 5'-GCGGAATTCTTAAAAAGAAAGACCTTCATCACAGC-3' <u>(SEQ ID NO: 22)</u>
EBHC68:   5'-GCGGAATTCCTACTGCTGCAGGTTGAGC-3' <u>(SEQ ID NO: 23)</u>

GalNAc-T3:
EBHC219H: 5'-GCGGGATCCAACGATGGAAAGGAACATG-3' <u>(SEQ ID NO: 24)</u>
EBHC215:   5'-AGCGGATCCAGGAACACTTAATCATTTTGGC-3' <u>(SEQ ID NO: 25)</u>

GalNAc-T4:
EBHC318:   5'-GCGGGATCCTTTTCATGCCTCCGCAGGAGCC-3' <u>(SEQ ID NO: 26)</u>
EBHC307:   5'-GCGGGATCCGACGAAAGTGCTGTTGTGCTC-3' <u>(SEQ ID NO: 27)</u>

GalNAc-T5:
·EBHC909:   5'-GCGGGATCCTGCTTTAACTGGAGGGCTAGAGC-3' <u>(SEQ ID NO: 28)</u>
EBHC907:   5'-GCGGGATCCATCAGTTACACTTCAGGCTTC-3' <u>(SEQ ID NO: 29)</u>

GalNAc-T6:
EBHC514H: 5'-GCGGGATCCCCTGGACCTCATGCTGGAGGCCATG-3' <u>(SEQ ID NO: 30)</u>
EBHC511N: 5'-AGCGGATCCTGGGGATGATCTGGGTCCTAGAC-3' <u>(SEQ ID NO: 31)</u>

GalNAc-T7:
EBHC1122H: 5'-GCGAAGCTTCAGGATGAGGGAAGACAGAGAT<u>G-3' (SEQ ID NO: 32)</u>
EBHC1116H: 5'-GCGAAGCTTCTCTCTAAACACTATGGATCTTATTC-3' <u>(SEQ ID NO: 33)</u>

GalNAc-T8:
EBHC1820: 5'-GCGGGATCCTCTGAAAGAAAGTATGAAATTAGC-3' <u>(SEQ ID NO: 34)</u>
EBHC1821: 5'-GCGGGATCCTCACTGGCTGTTGGTCTGACC<u>-3' (SEQ ID NO: 35)</u>

GalNAc-T9:
EBHC1320: 5'-GCGGGATCCCTGCCGCCTGCAGGGCCGCTCCCAG-3' <u>(SEQ ID NO: 36)</u>
EBHC1321: 5'-GCGGGATCCTCAGTGCCGTCGGTGTTTGATCC-3' <u>(SEQ ID NO: 37)</u>

GalNAc-T10:
EBHC2520: 5'-GCGGGATCCCCGCGAGCGGCAGCCCGACGGC-3' <u>(SEQ ID NO: 38)</u>
EBHC2521: 5'-GCGGGATCCTCAGTTCCTATTGAATTTTTC-3' <u>(SEQ ID NO: 39)</u>

GalNAc-T11:
EBHC629:   5'-GCGAATTCGTGAAGTGACTCAGCCACTTAAG-3' <u>(SEQ ID NO: 40)</u>
EBHC614:   5'-GCGAATTCGTCTCTGTCAGACACGTGTC-3' <u>(SEQ ID NO: 41)</u>

GalNAc-T12:
EBHC1051: 5'-GCGGGATCCGGCTCGGTGCTGCGGGCGCAGCG-3' <u>(SEQ ID NO: 42)</u>
EBHC1032: 5'-GCGGGATCCTCATAACATGCGCTCTTTGAAGAACC-3' <u>(SEQ ID NO: 43)</u>

GalNAc-T13:
EBHC2000: 5'-GCGGGATCCGATGTTGCACVVTCCCCACCACACC-3' <u>(SEQ ID NO: 44)</u>

EBHC2002:   5'-GCGGGATCCTCATCGTTCATCCACAGCATTG-3' (SEQ ID NO: 45)

GalNAc-T14:
EBHC1720:   5'-GCGGGATCCTCTGCTGCCTGCATTGAGGGCTG-3' (SEQ ID NO: 46)
EBH21721:   5'-GCGGGATCCTCATGTGCCCAAGGTCATGTTCC-3' (SEQ ID NO: 47)

GalNAc-T15:
EBHC412:   5'-GCGGGATCCCAAGAGGAAGTTGGAGGTGCCG-3' (SEQ ID NO: 48)
EBHC438:   5'-GCGGGATCCCAGGGGTCCTCAAGAGCTCACC-3' (SEQ ID NO: 49)

GalNAc-T16:
EBHC1913:   5'-GCGGGATCCCTACTACTTATGGCAGGACAACCG-3' (SEQ ID NO: 50)
EBHC1912:   5'-GCGTCATGTGTGTGGCAACAGCTGCCACTG-3' (SEQ ID NO: 51)

Please replace the paragraph beginning at page 51, line 1 with the following:

Expression constructs were amplified by PCR using 20 ng plasmid DNA as template. Expand High Fidelity-kit (Roche) was used as recommended by the manufacturer using an ABI2700 thermocycler (Applied Biosystems). Products were digested with *Eco*RI (GalNAc-T2, -T11, -T12 and -T16), *Bam*HI (GalNAc-T1, -T3, -T4, -T5, -T6, -T8, -T9, -T10, -T13, -T14 and -T15) and *Hind*III (GalNAc-T7), and sub-cloned into the *Eco*RI or *Hind*III site of pBKS-HistagI or the BamHI site of pBKS-HistagII. PBKS-Histag-I and –II vectors were generated from pBluescrip (Stratagene), by inserting a fragment encoding 6xHis, a thrombin cleavage site, and a T7 antibody site. pBKS-Histag-I was modified with the sequence:
5'-GCGGCCGCTCTAGAACTAGTGGATCCAGCAGCCATCATCATCATCATCACAGCAGCGGCC TGGTGCCGCGCGGCAGCCATATGGCTAGCATGACTGGTGGACAGCAAATGGGTCGCGGAATTCCGATATC AAGCTTATCGATACCGTCGACCTCGAG-3'. (SEQ ID NO: 52)

Please replace the paragraph beginning at page 51, line 13 with the following:

pBKS-Histag-II was modified with the sequence:
5'-GAATTCGCGGCCGCAGCAGCCATCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCG GCAGCCATATGGCTAGCATGACTGGTGGACAGCAAATGGATCCACTAGTTCTAGAGCGGCCGC-3'. (SEQ ID NO: 53)

Please replace the paragraph beginning at page 51, line 24 with the following:

Human GalNAc-T12 DNA sequence:

ATGTGGGGGCGCACGGCGCGGCGGCGCTGCCCGCGGGAACTGCGGCGCGGCCGGGAGGCGCTGTTGGTGCTC
CTGGCGCTACTGGCGTTGGCCGGGCTGGGCTCGGTGCTGCGGGCGCAGCGTGGGGCCGGGGCCGGGGCTGCC
GAGCCGGGACCCCCGCGCACCCCGCGCCCCGGGCGGCGCGAGCCGGTCATGCCGCGGCCGCCGGTGCCGGCG
AACGCGCTGGGCGCGCGGGGCGAGGCGGTGCGGCTGCAGCTGCAGGGCGAGGAGCTGCGGCTGCAGGAGGAG
AGCGTGCGGCTGCACCAGATTAACATCTACCTCAGCGACCGCATCTCACTGCACCGCCGCCTGCCCGAGCGC
TGGAACCCGCTGTGCAAAGAGAAGAAATATGATTATGATAATTTGCCCAGGACATCTGTTATCATAGCATTT
TATAATGAAGCCTGGTCAACTCTCCTTCGGACAGTTTACAGTGTCCTTGAGACATCCCCGGATATCCTGCTA
GAAGAAGTGATCCTTGTAGATGACTACAGTGATAGAGAGCACCTGAAGGAGCGCTTGGCCAATGAGCTTTCG
GGACTGCCCAAGGTGCGCCTGATCCGCGCCAACAAGAGAGAGGGCCTGGTGCGAGCCCGGCTGCTGGGGGCG
TCTGCGGCGAGGGGCGATGTTCTGACCTTCCTGGACTGTCACTGTGAATGCCACGAAGGGTGGCTGGAGCCG
CTGCTGCAGAGGATCCATGAAGAGGAGTCGGCAGTGGTGTGCCCGGTGATTGATGTGATCGACTGGAACACC
TTCGAATACCTGGGGAACTCCGGGGAGCCCCAGATCGGCGGTTTCGACTGGAGGCTGGTGTTCACGTGGCAC
ACAGTTCCTGAGAGGGAGAGGATACGGATGCAATCCCCCGTCGATGTCATCAGGTCTCCAACAATGGCTGGT
GGGCTGTTTGCTGTGAGTAAGAAATATTTTGAATATCTGGGGTCTTATGATACAGGAATGGAAGTTTGGGGA
GGAGAAAACCTCGAATTTTCCTTTAGGATCTGGCAGTGTGGTGGGGTTCTGGAAACACACCCATGTTCCCAT
GTTGGCCATGTTTTCCCCAAGCAAGCTCCCTACTCCCGCAACAAGGCTCTGGCCAACAGTGTTCGTGCAGCT
GAAGTATGGATGGATGAATTTAAAGAGCTCTACTACCATCGCAACCCCCGTGCCCGCTTGGAACCTTTTGGG
GATGTGACAGAGAGGAAGCAGCTCCGGGACAAGCTCCAGTGTAAAGACTTCAAGTGGTTCTTGGAGACTGTG
TATCCAGAACTGCATGTGCCTGAGGACAGGCCTGGCTTCTTCGGGATGCTCCAGAACAAAGGACTAACAGAC
TACTGCTTTGACTATAACCCTCCCGATGAAAACCAGATTGTGGGACACCAGGTCATTCTGTACCTCTGTCAT
GGGATGGGCCAGAATCAGTTTTTCGAGTACACGTCCCAGAAAGAAATACGCTATAACACCCACCAGCCTGAG
GGCTGCATTGCTGTGGAAGCAGGAATGGATACCCTTATCATGCATCTCTGCGAAGAAACTGCCCCAGAGAAT
CAGAAGTTCATCTTGCAGGAGGATGGATCTTTATTTCACGAACAGTCCAAGAAATGTGTCCAGGCTGCGAGG
AAGGAGTCGAGTGACAGTTTCGTTCCACTCTTACGAGACTGCACCAACTCGGATCATCAGAAATGGTTCTTC
AAAGAGCGCATGTTATGA (SEQ ID NO: 54)

Please replace the paragraph beginning at page 52, line 19 with the following:

Human GalNAc-T12 amino acid sequence:

MWGRTARRRCPRELRRGREALLVLLALLALAGLGSVLRAQRGAGAGAAEPGPPRTPRPGRREPVMP
RPPVPANALGARGEAVRLQLQGEELRLQEESVRLHQINIYLSDRISLHRRLPERWNPLCKEKKYDYDNLPRT
SVIIAFYNEAWSTLLRTVYSVLETSPDILLEEVILVDDYSDREHLKERLANELSGLPKVRLIRANKKKGLVR
ARLLGASAARGDVLTFLDCHCECHEGWLEPLLQRIHEEESAVVCPVIDVIDWNTFEYLGNSGEPQIGGFDWR
LVFTWHTVPERERIRMQSPVDVIRSPTMAGGLFAVSKKYFEYLGSYDTGMEVWGGENLEFSFRIWQCGGVLE

THPCSHVGHFSPSKLPTPRNKALANSVRAAEVWMDEFKELYYHRNPRARLEPFGDVTERKQLRDKLQCKDFK

WFLETVYPELHVPEDRPGFFGMLQNKGLTDYCFDYNPPDENQIVGHQVILYLCHGMGQNQFFEYTSQKEIRY

NTHQPEGCIAVEAGMDTLIMHLCEETAPENQKFILQEDGSLFHEQSKKCVQAARKESSDSFVPLLRDCTNSD

HQKWFFKERML (SEQ ID NO: 55)

Please replace the paragraph beginning at page 52, line 31 with the following:

Human GalNAc-T13 DNA sequence:

ATGCTCCTAAGGAAGCGATACAGGCACAGACCATGCAGACTCCAGTTCCTCCTGCTGCTCCTGATG

CTGGGATGCGTCCTGATGATGGTGGCGATGTTGCACCCTCCCCACCACACCCTGCACCAGACTGTCACAGCC

CAAGCCAGCAAGCACAGCCCTGAAGCCAGGTACCGCCTGGACTTTGGGGAATCCCAGGATTGGGTACTGGAA

GCTGAGGATGAGGGTGAAGAGTACAGCCCTCTGGAGGGCCTGCCACCCTTTATCTCACTGCGGGAGGATCAG

CTGCTGGTGGCCGTGGCCTTACCCCAGGCCAGAAGGAACCAGAGCCAGGGCAGGAGAGGTGGGAGCTACCGC

CTCATCAAGCAGCCAAGGAGGCAGGATAAGGAAGCCCCAAAGAGGGACTGGGGGGCTGATGAGGACGGGGAG

GTGTCTGAAGAAGAGGAGTTGACCCCGTTCAGCCTGGACCCACGTGGCCTCCAGGAGGCACTCAGTGCCCGC

ATCCCCCTCCAGAGGGCTCTGCCCGAGGTGCGGCACCCACTGTGTCTGCAGCAGCACCCTCAGGACAGCCTG

CCCACAGCCAGCGTCATCCTCTGTTTCCATGATGAGGCCTGGTCCACTCTCCTGCGGACTGTACACAGCATC

CTCGACACAGTGCCCAGGGCCTTCCTGAAGGAGATCATCCTCGTGGACGACCTCAGCCAGCAAGGACAACTC

AAGTCTGCTCTCAGCGAATATGTGGCCAGGCTGGAGGGGGTGAAGTTACTCAGGAGCAACAAGAGGCTGGGT

GCCATCAGGGCCCGGATGCTGGGGGCCACCAGAGCCACCGGGGATGTGCTCGTCTTCATGGATGCCCACTGC

GAGTGCCACCCAGGCTGGCTGGAGCCCCTCCTCAGCAGAATAGCTGGTGACAGGAGCCGAGTGGTATCTCCG

GTGATAGATGTGATTGACTGGAAGACTTTCCAGTATTACCCCTCAAAGGACCTGCAGCGTGGGGTGTTGGAC

TGGAAGCTGGATTTCCACTGGGAACCTTTGCCAGAGCATGTGAGGAAGGCCCTCCAGTCCCCCATAAGCCCC

ATCAGGAGCCCTGTGGTGCCCGGAGAGGTGGTGGCCATGGACAGACATTACTTCCAAAACACTGGAGCGTAT

GACTCTCTTATGTCGCTGCGAGGTGGTGAAAACCTCGAACTGTCTTTCAAGGCCTGGCTCTGTGGTGGCTCT

GTTGAAATCCTTCCCTGCTCTCGGGTAGGACACATCTACCAAAATCAGGATTCCCATTCCCCCCTCGACCAG

GAGGCCACCCTGAGGAACAGGGTTCGCATTGCTGAGACCTGGCTGGGGTCATTCAAAGAAACCTTCTACAAG

CATAGCCCAGAGGCCTTCTCCTTGAGCAAGGCTGAGAAGCCAGACTGCATGGAACGCTTGCAGCTGCAAAGG

AGACTGGGTTGTCGGACATTCCACTGGTTTCTGGCTAATGTCTACCCTGAGCTGTACCATCTGAACCCAGG

CCCAGTTTCTCTGGAAAGCTCCACAACACTGGACTTGGGCTCTGTGCAGACTGCCAGGCAGAAGGGGACATC

CTGGGCTGTCCCATGGTGTTGGCTCCTTGCAGTGACAGCCGGCAGCAACAGTACCTGCAGCACACCAGCAGG

AAGGAGATTCACTTTGGCAGCCCACAGCACCTGTGCTTTGCTGTCAGGCAGGAGCAGGTGATTCTTCAGAAC

TGCACGGAGGAAGGCCTGGCCATCCACCAGCAGCACTGGGACTTCCAGGAGAATGGGATGATTGTCCACATT

CTTTCTGGGAAATGCATGGAAGCTGTGGTGCAAGAAAACAATAAAGATTTGTACCTGCGTCCGTGTGATGGA

AAAGCCCGCCAGCAGTGGCGTTTTGACCAGATCAATGCTGTGGATGAACGATGA (SEQ ID NO: 56)

Please replace the paragraph beginning at page 53, line 24 with the following:

Human GalNAc-T13 amino acid sequence:

MLLRKRYRHRPCRLQFLLLLLMLGCVLMMVAMLHPPHHTLHQTVTAQASKHSPEARYRLDFGESQDWVLE
AEDEGEEYSPLEGLPPFISLREDQLLVAVALPQARRNQSQGRRGGSYRLIKQPRRQDKEAPKRDWGADED
GEVSEEEELTPFSLDPRGLQEALSARIPLQRALPEVRHPLCLQQHPQDSLPTASVILCFHDEAWSTLLRT
VHSILDTVPRAFLKEIILVDDLSQQGQLKSALSEYVARLEGVKLLRSNKRLGAIRARMLGATRATGDVLV
FMDAHCECHPGWLEPLLSRIAGDRSRVVSPVIDVIDWKTFQYYPSKDLQRGVLDWKLDFHWEPLPEHVRK
ALQSPISPIRSPVVPGEVVAMDRHYFQNTGAYDSLMSLRGGENLELSFKAWLCGGSVEILPCSRVGHIYQ
NQDSHSPLDQEATLRNRVRIAETWLGSFKETFYKHSPEAFSLSKAEKPDCMERLQLQRRLGCRTFHWFLA
NVYPELYPSEPRPSFSGKLHNTGLGLCADCQAEGDILGCPMVLAPCSDSRQQQYLQHTSRKEIHFGSPQH
LCFAVRQEQVILQNCTEEGLAIHQQHWDFQENGMIVHILSGKCMEAVVQENNKDLYLRPCDGKARQQWRF
DQINAVDER **(SEQ ID NO: 57)**

Please replace the paragraph beginning at page 54, line 1 with the following:

Human GalNAc-T14 DNA sequence:

ATGAGGAGATTTGTCTACTGCAAGGTGGTTCTAGCCACTTCGCTGATGTGGGTTCTTGTTGATGTC
TTCTTACTGCTGTACTTCAGTGAATGTAACAAATGTGATGACAAGAAGGAGAGATCTCTGCTGCCTGCATTG
AGGGCTGTTATTTCAAGAAACCAAGAAGGGCCAGGAGAAATGGGAAAAGCTGTGTTGATTCCTAAAGATGAC
CAGGAGAAAATGAAAGAGCTGTTTAAAATCAATCAGTTTAACCTTATGGCCAGTGATTTGATTGCCCTTAAT
AGAAGTCTGCCAGATGTAAGATTAGAAGGATGTAAGACAAAAGTCTACCCTGATGAACTTCCAAACACAAGT
GTAGTCATTGTGTTTCATAATGAAGCTTGGAGCACTCTCCTTAGAACTGTTTACAGTGTGATAAATCGTTCC
CCACACTATCTACTCTCAGAGGTCATCTTGGTAGATGATGCCAGTGAAAGAGATTTTCTCAAGTTGACATTA
GAGAATTACGTGAAAAATTTAGAAGTGCCAGTAAAAATTATTAGGATGGAAGAACGCTCTGGGTTAATACGT
GCCCGTCTTCGAGGAGCAGCTGCTTCAAAAGGGCAGGTCATAACTTTTCTTGATGCACACTGTGAATGCACG
TTAGGATGGCTGGAGCCTTTGCTGGCAAGAATAAAGGAAGACAGGAAAACGGTTGTCTGCCCTATCATTGAT
GTGATTAGTGATGATACTTTTGAATATATGGCTGGGTCAGACATGACTTATGGGGGTTTTAACTGGAAACTG
AATTTCCGCTGGTATCCTGTTCCCCAAAGAGAAATGGACAGGAGGAAAGGAGACAGAACATTACCTGTCAGG
ACCCCTACTATGGCTGGTGGCCTATTTTCTATTGACAGAAACTACTTTGAAGAGATAGGAACTTACGATGCA
GGAATGGATATCTGGGGTGGAGAGAATCTTGAAATGTCTTTTAGGATTTGGCAATGTGGAGGCTCCTTGGAG
ATTGTTACTTGCTCCCATGTTGGTCATGTTTTTCGGAAGGCAACTCCATACACTTTTCCTGGTGGCACTGGT
CATGTCATCAACAAGAACAACAGGAGACTGGCAGAAGTTTGGATGGATGAATTTAAAGATTTCTTCTACATC
ATATCCCCAGGTGTTGTCAAAGTGGATTATGGAGATGTGTCAGTCAGAAAAACACTAAGAGAAATCTGAAG
TGTAAGCCCTTTTCTTGGTACCTAGAAAACATCTATCCGGACTCCCAGATCCCAAGACGTTATTACTCACTT
GGTGAGATAAGAAATGTTGAAACCAATCAGTGTTTAGACAACATGGGCCGCAAGGAAAATGAAAAAGTGGGT
ATATTCAACTGTCATGGTATGGGAGGAAATCAGGTATTTTCTTACACTGCTGACAAAGAAATCCGAACCGAT
GACTTGTGCTTGGATGTTTCTAGACTCAATGGACCTGTAATCATGTTAAAATGCCACCATATGAGAGGAAAT
CAGTTATGGGAATATGATGCTGAGAGACTCACGTTGCGACATGTTAACAGTAACCAATGTCTCGATGAACCT

TCTGAAGAAGACAAAATGGTGCCTACAATGCAGGACTGTAGTGGAAGCAGATCCCAACAGTGGCTGCTAAGG
AACATGACCTTGGGCACATGA (SEQ ID NO: 58)

Please replace the paragraph beginning at page 54, line 25 with the following:

Human GalNAc-T14 amino acid sequence:

MRRFVYCKVVLATSLMWVLVDVFLLLYFSECNKCDDKKERSLLPALRAVISRNQEGPGEMGKAVLI
PKDDQEKMKELFKINQFNLMASDLIALNRSLPDVRLEGCKTKVYPDELPNTSVVIVFHNEAWSTLLRTVYSV
INRSPHYLLSEVILVDDASERDFLKLTLENYVKNLEVPVKIIRMEERSGLIRARLRGAAASKGQVITFLDAH
CECTLGWLEPLLARIKEDRKTVVCPIIDVISDDTFEYMAGSDMTYGGFNWKLNFRWYPVPQREMDRRKGDRT
LPVRTPTMAGGLFSIDRNYFEEIGTYDAGMDIWGGENLEMSFRIWQCGGSLEIVTCSHVGHVFRKATPYTFP
GGTGHVINKNNRRLAEVWMDEFKDFFYIISPGVVKVDYGDVSVRKTLRENLKCKPFSWYLENIYPDSQIPRR
YYSLGEIRNVETNQCLDNMGRKENEKVGIFNCHGMGGNQVFSYTADKEIRTDDLCLDVSRLNGPVIMLKCHH
MRGNQLWEYDAERLTLRHVNSNQCLDEPSEEDKMVPTMQDCSGSRSQQWLLRNMTLGT (SEQ ID NO:
59)

Please replace the paragraph beginning at page 55, line 1 with the following:

Human GalNAc-T15 DNA sequence:

ATGCGGCGCCTGACTCGTCGGCTGGTTCTGCCAGTCTTCGGGGTGCTCTGGATCACGGTGCTGCTGTTCT
TCTGGGTAACCAAGAGGAAGTTGGAGGTGCCGACGGGACCTGAAGTGCAGACCCCTAAGCCTTCGGACGC
TGACTGGGACGACCTGTGGGACCAGTTTGATGAGCGGCGGTATCTGAATGCCAAAAAGTGGCGCGTTGGT
GACGACCCCTATAAGCTGTATGCTTTCAACCAGCGGGAGAGTGAGCGGATCTCCAGCAATCGGGCCATCC
CGGACACTCGCCATCTGAGATGCACACTGCTGGTGTATTGCACGGACCTTCCACCCACTAGCATCATCAT
CACCTTCCACAACGAAGCCCGCTCCACGCTGCTCAGGACCATCCGCAGTGTATTAAACCGCACCCCTACG
CATCTGATCCGGGAAATCATATTAGTGGATGACTTCAGCAATGACCCTGATGACTGTAAACAGCTCATCA
AATTGCCCAAGGTGAAATGCTTGCGCAATAATGAACGGCAAGGTCTGGTCCGGTCCCGGATTCGGGGCGC
TGACATCGCCCAGGGCACCACTCTGACTTTCCTCGACAGCCACTGTGAGGTGAACAGGGACTGGCTCCAG
CCTCTGTTGCACAGGGTCAAAGAAGACTACACGCGGGTGGTGTGCCCTGTGATCGATATCATTAACCTGG
ACACCTTCACCTACATCGAGTCTGCCTCGGAGCTCAGAGGGGGGTTTGACTGGAGCCTCCACTTCCAGTG
GGAGCAGCTCTCCCCAGAGCAGAAGCTCGGCGCCTGGACCCCACGGAAGCCCATCAGGACTCCTATCATA
GCTGGAGGGCTCTTCGTGATCGACAAAGCTTGGTTTGATTACCTGGGGAAATATGATATGGACATGGACA
TCTGGGGTGGGGAGAACTTTGAAATCTCCTTCCGAGTGTGGATGTGCGGGGGCAGCCTAGAGATCGTCCC
CTGCAGCCGAGTGGGGCACGTCTTCCGGAAGAAGCACCCCTACGTTTTCCCTGATGGAAATGCCAACACG
TATATAAAGAACACCAAGCGGACAGCTGAAGTGTGGATGGATGAATACAAGCAATACTATTACGCTGCCC
GGCCATTCGCCCTGGAGAGGCCCTTCGGGAATGTTGAGAGCAGATTGGACCTGAGGAAGAATCTGCGCTG
CCAGAGCTTCAAGTGGTACCTGGAGAATATCTACCCTGAACTCAGCATCCCCAAGGAGTCCTCCATCCAG

AAGGGCAATATCCGACAGAGACAGAAGTGCCTGGAATCTCAAAGGCAGAACAACCAAGAAACCCCAAACC

TAAAGTTGAGCCCCTGTGCCAAGGTCAAAGGCGAAGATGCAAAGTCCCAGGTATGGGCCTTCACATACAC

CCAGCAGATCCTCCAGGAGGAGCTGTGCCTGTCAGTCATCACCTTGTTCCCTGGCGCCCCAGTGGTTCTT

GTCCTTTGCAAGAATGGAGATGACCGACAGCAATGGACCAAAACTGGTTCCCACATCGAGCACATAGCAT

CCCACCTCTGCCTCGATACAGATATGTTCGGTGATGGCACCGAGAACGGCAAGGAAATCGTCGTCAACCC

ATGTGAGTCCTCACTCATGAGCCAGCACTGGGACATGGTGAGCTCTTGAGGACCCCTGCCAGAAGCAGCA

AGGGCCATGGGGTGGTGCTTCCCTGGACCAGAACAGACTGGAAACTGGGCAGCAAGCAGCCTGCAACCAC

CTCAGACATCCTGGACTGGGAGGTGGAGGCAGAGCCCCCCAGGACAGGAGCAACTGTCTCAGGGAGGACA

GAGGAAAACATCACAAGCCAATGGGGCTCAAAGACAAATCCCACATGTTCTCAAGGCCGTTAAGTTCCAG

TCCTGGCCAGTCATTCCCTGA (SEQ ID NO: 60)

Please replace the paragraph beginning at page 55, line 29 with the following:

Human GalNAc-T15 amino acid sequence:

MRRLTRRLVLPVFGVLWITVLLFFWVTKRKLEVPTGPEVQTPKPSDADWDDLWDQFDERRYLNAKK

WRVGDDPYKLYAFNQRESERISSNRAIPDTRHLRCTLLVYCTDLPPTSIIITFHNEARSTLLRTIRSVLNRT

PTHLIREIILVDDFSNDPDDCKQLIKLPKVKCLRNNERQGLVRSRIRGADIAQGTTLTFLDSHCEVNRDWLQ

PLLHRVKEDYTRVVCPVIDIINLDTFTYIESASELRGGFDWSLHFQWEQLSPEQKLGAWTPRKPIRTPIIAG

GLFVIDKAWFDYLGKYDMDMDIWGGENFEISFRVWMCGGSLEIVPCSRVGHVFRKKHPYVFPDGNANTYIKN

TKRTAEVWMDEYKQYYYAARPFALERPFGNVESRLDLRKNLRCQSFKWYLENIYPELSIPKESSIQKGNIRQ

RQKCLESQRQNNQETPNLKLSPCAKVKGEDAKSQVWAFTYTQQILQEELCLSVITLFPGAPVVLVLCKNGDD

RQQWTKTGSHIEHIASHLCLDTDMFGDGTENGKEIVVNPCESSLMSQHWDMVSS (SEQ ID NO: 61)

Please replace the paragraph beginning at page 56, line 5 with the following:

Human GalNAc-T16 DNA sequence:

ATGAGGAAGATCCGCGCCAATGCCATCGCCATCCTGACCGTAGCCTGGATCCTGGGCACTTTCTAC

TACTTATGGCAGGACAACCGAGCCCACGCAGCATCCTCCGGCGGCCGGGGCGCGCAGAGGGCAGGCAGGAGG

TCGGAGCAGCTCCGCGAGGACCGCACCATCCCGCTCATTGTGACAGGAACTCCCTCGAAAGGCTTTGATGAG

AAGGCCTACCTGTCGGCCAAGCAGCTGAAGGCTGGAGAGGACCCCTACAGACAGCACGCCTTCAACCAGCTG

GAGAGTGACAAGCTGAGCCCAGACCGGCCCATCCGGGACACCCGCCATTACAGCTGCCCATCTGTGTCCTAC

TCCTCGGACCTGCCAGCCACCAGCGTCATCATCACCTTCCACAATGAGGCCCGTTCCACCCTGCTGCGCACA

GTGAAGAGTGTCCTGAACCGAACTCCTGCCAACTTGATCCAGGAGATCATTTTAGTGGATGACTTCAGCTCA

GATCCGGAAGACTGTCTACTCCTGACCAGGATCCCCAAGGTCAAGTGCCTGCGCAATGATCGGCGGGAAGGG

CTGATCCGGTCCCGAGTGCGTGGGGCGGACGTGGCTGCAGCTACCGTTCTCACCTTTCTGGATAGCCACTGC

GAAGTGAACACCGAGTGGCTGCCGCCCATGCTGCAGCGGGTGAAGGAGGACCACACCCGCGTGGTGAGTCCC

ATCATTGATGTCATCAGTCTGGATAATTTTGCCTACCTTGCAGCATCTGCTGACCTTCGTGGAGGGTTCGAC

TGGAGCCTGCATTTCAAGTGGGAGCAGATCCCTCTTGAGCAGAAGATGACCCGGACAGACCCCACCAGGCCC
ATAAGGACGCCTGTCATAGCTGGAGGAATCTTCGTGATCGACAAGTCCTGGTTTAACCACTTGGGAAAGTAT
GATGCCCAGATGGACATCTGGGGGGGAGAGAATTTTGAGCTCTCCTTCAGGGTGTGGATGTGTGGTGGCAGT
CTGGAGATCGTCCCCTGCAGCCGGGTGGGCCATGTCTTCAGGAAACGGCACCCCTACAACTTCCCTGAGGGT
AATGCCCTCACCTACATCAGGAATACTAAGCGCACTGCAGAAGTGTGGATGGATGAATACAAGCAATACTAC
TATGAGGCCCGGCCCTCGGCCATCGGGAAGGCCTTCGGCAGTGTGGCTACGCGGATAGAGCAGAGGAAGAAG
ATGAACTGCAAGTCCTTCCGCTGGTACCTGGAGAACGTCTACCCAGAGCTCACGGTCCCCGTGAAGGAAGCA
CTCCCCGGCATCATTAAGCAGGGGGTGAACTGCTTAGAATCTCAGGGCCAGAACACAGCTGGTGACTTCCTG
CTTGGAATGGGGATCTGCAGAGGGTCTGCCAAGAACCCGCAGCCCGCCCAGGCATGGCTGTTCAGTGACCAC
CTCATCCAGCAGCAGGGGAAGTGCCTGGCTGCCACCTCCACCTTAATGTCCTCCCCTGGATCCCCAGTCATA
CTGCAGATGTGCAACCCTAGAGAAGGCAAGCAGAAATGGAGGAGAAAAGGATCTTTCATCCAGCATTCAGTC
AGTGGCCTCTGCCTGGAGACAAAGCCTGCCCAGCTGGTGACCAGCAAGTGTCAGGCTGACGCCCAGGCCCAG
CAGTGGCAGCTGTTGCCACACACATGA (SEQ ID NO: 62)

Please replace the paragraph beginning at page 56, line 30 with the following:

Human GalNAc-T16 amino acid sequence:

MRKIRANAIAILTVAWILGTFYYLWQDNRAHAASSGGRGAQRAGRRSEQLREDRTIPLIVTGTPSK
GFDEKAYLSAKQLKAGEDPYRQHAFNQLESDKLSPDRPIRDTRHYSCPSVSYSSDLPATSVIITFHNEARST
LLRTVKSVLNRTPANLIQEIILVDDFSSDPEDCLLLTRIPKVKCLRNDRREGLIRSRVRGADVAAATVLTFL
DSHCEVNTEWLPPMLQRVKEDHTRVVSPIIDVISLDNFAYLAASADLRGGFDWSLHFKWEQIPLEQKMTRTD
PTRPIRTPVIAGGIFVIDKSWFNHLGKYDAQMDIWGGENFELSFRVWMCGGSLEIVPCSRVGHVFRKRHPYN
FPEGNALTYIRNTKRTAEVWMDEYKQYYYEARPSAIGKAFGSVATRIEQRKKMNCKSFRWYLENVYPELTVP
VKEALPGIIKQGVNCLESQGQNTAGDFLLGMGICRGSAKNPQPAQAWLFSDHLIQQQGKCLAATSTLMSSPG
SPVILQMCNPREGKQKWRRKGSFIQHSVSGLCLETKPAQLVTSKCQADAQAQQWQLLPHT (SEQ ID NO:
63)

Please replace the Table beginning at page 58, with the following:

Table II. Primers used for amplification of GalNAc-transferase lectin domains

GalNAc-T1 lectin domain:
T1LECFOR: 5'-CAAAGGAAGCTTATGGAGATATATCGTCAAGAG-3' (SEQ ID NO: 64)
T1LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCAGAATATTTCTGGAAGGGTGAC-3' (SEQ ID NO: 65)

GalNAc-T2 lectin domain:
T2LECFOR: 5'-CAAGGAAGCTTCTTATGGAAATATTCAGAGCAGATTG-3' (SEQ ID NO: 66)
T2LECREV: 5'-GCAAGCTCGAGGCGGCCGCCTACTGCTGCAGGTTGAGC-3' (SEQ ID NO: 67)

GalNAc-T3 lectin domain:

T3LECFOR: 5'-CAAGGAAGCTTCATTTGGTGATCTTTCAAAAAGATTT-3' (SEQ ID NO: 68)
T3LECREV: 5'-GCAAGCTCGAGGCGGCCGCAGGAACACTTAATCATTTTGG-3' (SEQ ID NO: 69)

GalNAc-T4 lectin domain:
T4LECFOR: 5'-AGAAAAGAAGCTTATGGTGATATTTCTG-3' (SEQ ID NO: 70)
EBHC307: 5'-AGCGGATCCGACGAAGTGCTGTTGTGCT -3' (SEQ ID NO: 71)

GalNAc-T5 lectin domain:
T5LECFOR: 5'-CAAGGAAGCTTTAGATGTTGGCAACCTCACCCAGC-3' (SEQ ID NO: 72)
T5LECREV: 5'-GCAAGCTCGAGGCGGCCGCAAGCATCAGTTACACTTCAGGCTTC-3' (SEQ ID NO: 73)

GalNAc-T6 lectin domain:
T6LECFOR: 5'-CAAGGAAGCTTCCTTCGGTGACATTTCGGAACG-3´ (SEQ ID NO: 74)
T6LECREV: 5'-GCAAGCTCGAGGCGGCCGCTGGGTCCTAGACAAAGAGCC-3' (SEQ ID NO: 75)

GalNAc-T7 lectin domain:
T7LECFOR: 5'-AGAAAAGAAGCTTATGGGGATATATCGGAGCTG-3' (SEQ ID NO: 76)
T7LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCTCTAAACACTATGGATGTTATTC-3' (SEQ ID NO: 77)

GalNAc-T8 lectin domain:
T8LECFOR: 5'-CAAGGAAGCTTTTGGAGACGTTTCTTCCAGAATG-3' (SEQ ID NO: 78)
T8LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCACTGGCTGTTGGTCTGACCCC-3' (SEQ ID NO: 79)

GalNAc-T9 lectin domain:
T9LECFOR: 5'-CAAGGAAGCTTTCGGGGACGTGTCTGAGAGGCTG-3' (SEQ ID NO: 80)
T9LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCAGTGCCGTGCGTGTTTGATCC -3' (SEQ ID NO: 81)

GalNAc-T10 lectin domain:
T10LECFOR: 5'-CAAGGAAGCTTCCGCTGGGGATGTCGCAGTCCAG-3' (SEQ ID NO: 82)
T10LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCAGTTCCTATTGAATTTTTCC-3' (SEQ ID NO: 83)

GalNAc-T11 lectin domain:
T11LECFOR: 5'-CAAGGAAGCTTGCAATATCAGTGAGCGTGTGG-3' (SEQ ID NO: 84)
T11LECREV: 5'-GCAAGCTCGAGGCGGCCGCCCACCTTAACCTTCCAAATGC-3' (SEQ ID NO: 85)

GalNAc-T12 lectin domain:
T12LECFOR: 5'-CAAGGAAGCTTGGGATGTGACAGAGAGGAAG-3' (SEQ ID NO: 86)
T12LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCATAACATGCGCTCTTTGAAGAACC-3' (SEQ ID NO: 87)

GalNAc-T13 lectin domain:
T13LECFOR: 5'-CAAGGAAGCTTCTGAGAAGCCAGACTGCATGG-3' (SEQ ID NO: 88)
T13LECREV: 5,-GCAAGCTCGAGGCGGCCGCTCATCGTTCATCCACAGCATTG-3' (SEQ ID NO: 89)

GalNAc-T14 lectin domain:
T14LECFOR: 5'-CAAGGAAGCTTATGGAGATGTGTCAGTCAGAAAAAC-3' (SEQ ID NO: 90)
T14LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCATGTGCCCAAGGTCATGTTCC-3' (SEQ ID NO: 91)

GalNAc-T15 lectin domain:
T15LECFOR: 5'-CAAGGAAGCTTTCGGGAATGTTGAGAGCAGATTG-3' (SEQ ID NO: 92)
T15LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCAAGAACTCACCATGTCCCAGTG-3' (SEQ ID NO: 93)

GalNAc-T16 lectin domain:
T16LECFOR: 5'-CAAGGAAGCTTGCAGTGTGGCTACGCGGATAGAGCAGAGG-3' (SEQ ID NO: 94)
T16LECREV: 5'-GCAAGCTCGAGGCGGCCGCTCATGTGTGTGGCAACAGCTGCC-3' (SEQ ID NO: 95)

Please replace the paragraph beginning at page 59, line 18 with the following (please

note that the text on page 59, line 24 "TGA-stop" has not been added by way of this

amendment. This text was underlined and bolded in the specification as filed and it

should be underlined in the unmarked version of this paragraph):

T1 LECTIN DNA sequence

AAAGAAGCTTATGGAGATATATCGTCAAGAGTTGGTCTAAGACACAAACTACAATGCAAACCTTTTTCCT
GGTACCTAGAGAATATATATCCTGATTCTCAAATTCCACGTCACTATTTCTCATTGGGAGAGATACGAAA
TGTGGAAACGAATCAGTGTCTAGATAACATGGCTAGAAAAGAGAATGAAAAAGTTGGAATTTTTAATTGC
CATGGTATGGGGGGTAATCAGGTTTTCTCTTATACTGCCAACAAAGAAATTAGAACAGATGACCTTTGCT
TGGATGTTTCCAAACTTAATGGCCCAGTTACAATGCTCAAATGCCACCACCTAAAAGGCAACCAACTCTG
GGAGTATGACCCAGTGAAATTAACCCTGCAGCATGTGAACAGTAATCAGTGCCTGGATAAAGCCACAGAA
GAGGATAGCCAGGTGCCCAGCATTAGAGACTGCAATGGAAGTCGGTCCCAGCAGTGGCTTCTTCGAAACG
TCACCCTTCCAGAAATATTC**TGA-stop** (SEQ ID NO: 96)

Please replace the paragraph beginning at page 59, line 29 with the following:

T1 LECTIN Amino acid sequence

YGDISSRVGLRHKLQCKPFSWYLENIYPDSQIPRHYFSLGEIRNVETNQCLDNMARKENEKVGIFNCHGM
GGNQVFSYTANKEIRTDDLCLDVSKLNGPVTMLKCHHLKGNQLWEYDPVKLTLQHVNSNQCLDKATEEDS
QVPSIRDCNGSRSQQWLLRNVTLPEIF* (SEQ ID NO: 97)

Please replace the paragraph beginning at page 60, line 1 with the following (please

note that the text on page 60, line 8 "TAG-stop" has not been added by way of this

amendment. This text was underlined and bolded in the specification as filed and it

should be underlined in the unmarked version of this paragraph):

T2 LECTIN DNA sequence

TATCCAGAGTTAAGGGGTTCCAGACCATCAGGATATAGCTTTTGGGGCCTTGCAGCAGGGAACTAACTGCC
TCGACACTTTGGGACACTTTGCTGATGGTGTGGTTGGAGTTTATGAATGTCACAATGCTGGGGGAAACCA
GGAATGGGCCTTGACGAAGGAGAAGTCGGTGAAGCACATGGATTTGTGCCTTACTGTGGTGGACCGGGCA

CCGGGCTCTCTTATAAAGCTGCAGGGCTGCCGAGAAAATGACAGCAGACAGAAATGGGAACAGATCGAGG
GCAACTCCAAGCTGAGGCACGTGGGCAGCAACCTGTGCCTGGACAGTCGCACGGCCAAGAGCGGGGGCCT
AAGCGTGGAGGTGTGTGGCCCGGCCCTTTCGCAGCAGTGGAAGTTCACGCTCAACCTGCAGCAG**TAG-
stop** (SEQ ID NO: 98)

Please replace the paragraph beginning at page 60, line 10 with the following:

T2 LECTIN Amino acid sequence

YPELRVPDHQDIAFGALQQGTNCLDTLGHFADGVVGVYECHNAGGNQEWALTKEKSVKHMDLCLTVVDRA
PGSLIKLQGCRENDSRQKWEQIEGNSKLRHVGSNLCLDSRTAKSGGLSVEVCGPALSQQWKFTLNLQQ*
(SEQ ID NO: 99)

Please replace the paragraph beginning at page 60, line 20 with the following (please

note that the text on page 60, line 28 "TAA-stop" has not been added by way of this

amendment. This text was underlined and bolded in the specification as filed and it

should be underlined in the unmarked version of this paragraph):

T3 LECTIN DNA sequence

TCATTTGGTGATCTTTCAAAAGATTTGAAATAAAACACCGTCTTCGGTGTAAAAATTTTACATGGTATC
TGAACAACATTTATCCAGAGGTGTATGTGCCAGACCTTAATCCTGTTATATCTGGATACATTAAAAGCGT
TGGTCAGCCTCTATGTCTGGATGTTGGAGAAAACAATCAAGGAGGCAAACCATTAATTATGTATACATGT
CATGGACTTGGGGGAAACCAGTACTTTGAATACTCTGCTCAACATGAAATTCGGCACAACATCCAGAAGG
AATTATGTCTTCATGCTGCTCAAGGTCTCGTTCAGCTGAAGGCATGTACCTACAAAGGTCACAAGACAGT
TGTCACTGGAGAGCAGATATGGGAGATCCAGAAGGATCAACTTCTATACAATCCATTCTTAAAAATGTGC
CTTTCAGCAAATGGAGAGCATCCAAGTTTAGTGTCATGCAACCCATCAGATCCACTCCAAAAATGGATAC
TTAGCCAAAATGAT**TAA-stop** (SEQ ID NO: 100)

Please replace the paragraph beginning at page 60, line 30 with the following:

T3 LECTIN Amino acid sequence

FGDLSKRFEIKHRLRCKNFTWYLNNIYPEVYVPDLNPVISGYIKSVGQPLCLDVGENNQGGKPLIMYTCH
GLGGNQYFEYSAQHEIRHNIQKELCLHAAQGLVQLKACTYKGHKTVVTGEQIWEIQKDQLLYNPFLKMCL
SANGEHPSLVSCNPSDPLQKWILSQND* (SEQ ID NO: 101)

Please replace the paragraph beginning at page 60, line 40 with the following (please

note that the text on page 61, line 3 "TAG-stop" has not been added by way of this

amendment. This text was underlined and bolded in the specification as filed and it

should be underlined in the unmarked version of this paragraph):

T4 LECTIN DNA sequence

GAGGATAGACCAGGCTGGCATGGGGCTATTCGCAGTAGAGGGATCTCGTCTGAATGTTTAGATTATAATT
CTCCTGACAACAACCCCACAGGTGCTAACCTTTCACTGTTTGGATGCCATGGTCAAGGAGGCAATCAATT
CTTTGAATATACTTCAAACAAAGAAATAAGGTTTAATTCTGTGACAGAGTTATGTGCAGAGGTACCTGAG
CAAAAAATTATGTGGGAATGCAAAATTGTCCCAAAGATGGGTTCCCTGTACCAGCAAACATTATTTGGC
ATTTTAAAGAAGATGGAACTATTTTTCACCCACACTCAGGACTGTGTCTTAGTGCTTATCGGACACCGGA
GGGCCGACCTGATGTACAAATGAGAACTTGTGATGCTCTAGATAAAAATCAAATTTGGAGTTTTGAGAAA
TAG-stop (SEQ ID NO: 102)

Please replace the paragraph beginning at page 61, line 5 with the following:

T4 LECTIN Amino acid sequence

AYGDISERKLLRERLRCKSFDWYLKNVFPNLHVPEDRPGWHGAIRSRGISSECLDYNSPDNNPTGANLSL
FGCHGQGGNQFFEYTSNKEIRFNSVTELCAEVPEQKNYVGMQNCPKDGFPVPANIIWHFKEDGTIFHPHS
GLCLSAYRTPEGRPDVQMRTCDALDKNQIWSFEK* (SEQ ID NO: 103)

Please replace the paragraph beginning at page 61, line 15 with the following (please

note that the text on page 61, line 23 "TGA-stop" has not been added by way of this

amendment. This text was underlined and bolded in the specification as filed and it

should be underlined in the unmarked version of this paragraph):

T5 LECTIN DNA sequence

TTAGATGTTGGCAACCTCACCCAGCAAAGGGAGCTGCGAAAGAAACTGAAGTGCAAAAGTTTCAAATGGT
ACTTGGAGAATGTCTTTCCTGACTTAAGGGCTCCCATTGTGAGAGCTAGTGGTGTGCTTATTAATGTGGC
TTTGGGTAAATGCATTTCCATTGAAAACACTACAGTCATTCTGGAAGACTGCGATGGGAGCAAAGAGCTT
CAACAATTTAATTACACCTGGTTAAGACTTATTAAATGTGGAGAATGGTGTATAGCCCCCATCCCTGATA
AAGGAGCCGTAAGGCTGCACCCTTGTGATAACAGAAACAAAGGGCTAAAATGGCTGCATAAATCAACATC
AGTCTTTCATCCAGAACTGGTGAATCACATTGTTTTTGAAAACAATCAGCAATTATTATGCTTGGAAGGA
AATTTTTCTCAAAAGATCCTGAAAGTAGCTGCCTGTGACCCAGTGAAGCCATATCAAAAGTGGAAATTTG
AAAAATATTATGAAGCC**TGA-stop** (SEQ ID NO: 104)

Please replace the paragraph beginning at page 61, line 27 with the following:

T5 LECTIN Amino acid sequence
DVGNLTQQRELRKKLKCKSFKWYLENVFPDLRAPIVRASGVLINVALGKCISIENTTVILEDCDGSKELQ
QFNYTWLRLIKCGEWCIAPIPDKGAVRLHPCDNRNKGLKWLHKSTSVFHPELVNHIVFENNQQLLCLEGN
FSQKILKVAACDPVKPYQKWKFEKYYEA* (SEQ ID NO: 105)

Please replace the paragraph beginning at page 61, line 36 with the following (please

note that the text on page 61, line 44 "TAG-stop" has not been added by way of this amendment. This text was underlined and bolded in the specification as filed and it should be underlined in the unmarked version of this paragraph):

T6 LECTIN DNA sequence

TCCTTCGGTGACATTTCGGAACGACTGCAGCTGAGGGAACAACTGCACTGTCACAACTTTTCCTGGTACC
TGCACAATGTCTACCCAGAGATGTTTGTTCCTGACCTGACGCCCACCTTCTATGGTGCCATCAAGAACCT
CGGCACCAACCAATGCCTGGATGTGGGTGAGAACAACCGCGGGGGGAAGCCCCTCATCATGTACTCCTGC
CACGGCCTTGGCGGCAACCAGTACTTTGAGTACACAACTCAGAGGGACCTTCGCCACAACATCGCAAAGC
AGCTGTGTCTACATGTCAGCAAGGGTGCTCTGGGCCTTGGGAGCTGTCACTTCACTGGCAAGAATAGCCA
GGTCCCCAAGGACGAGGAATGGGAATTGGCCCAGGATCAGCTCATCAGGAACTCAGGATCTGGTACCTGC
CTGACATCCCAGGACAAAAAGCCAGCCATGGCCCCCTGCAATCCCAGTGACCCCCATCAGTTGTGGCTCT
TTGTC<u>**TAG-stop**</u> <u>(SEQ ID NO: 106)</u>

Please replace the paragraph beginning at page 61, line 46 with the following:

T6 LECTIN Amino acid sequence

SFGDISERLQLREQLHCHNFSWYLHNVYPEMFVPDLTPTFYGAIKNLGTNQCLDVGENNRGGKPLIMYSC
HGLGGNQYFEYTTQRDLRHNIAKQLCLHVSKGALGLGSCHFTGKNSQVPKDEEWELAQDQLIRNSGSGTC
LTSQDKKPAMAPCNPSDPHQLWLFV* <u>(SEQ ID NO: 107)</u>

Please replace the paragraph beginning at page 62, line 10 with the following (please note that the text on page 62, line 18 "TAG-stop" has not been added by way of this amendment. This text was underlined and bolded in the specification as filed and it should be underlined in the unmarked version of this paragraph):

T7 LECTIN DNA sequence

TATGGGGATATATCGGAGCTGAAAAAATTTCGAGAAGATCACAACTGCCAAAGTTTTAAGTGGTTCATGG
AAGAAATAGCTTATGATATCACCTCACACTACCCTTTGCCACCCAAAAATGTTGACTGGGGAGAAATCAG
AGGCTTCGAAACTGCTTACTGCATTGATAGCATGGGAAAAACAAATGGAGGCTTTGTTGAACTAGGACCC
TGCCACAGGATGGGAGGGAATCAGCTTTTCAGAATCAATGAAGCAAATCAACTCATGCAGTATGACCAGT
GTTTGACAAAGGGAGCTGATGGATCAAAAGTTATGATTACACACTGTAATCTAAATGAATTTAAGGAATG
GCAGTACTTCAAGAACCTGCACAGATTTACTCATATTCCTTCAGGAAAGTGTTTAGATCGCTCAGAGGTC
CTGCATCAAGTATTCATCTCCAATTGTGACTCCAGTAAAACGACTCAAAAATGGGAAATGAATAACATCC
<u>ATAGTGTT</u>**<u>TAG-stop</u>** <u>(SEQ ID NO: 108)</u>

Please replace the paragraph beginning at page 62, line 20 with the following:

T7 LECTIN Amino acid sequence

YGDISELKKFREDHNCQSFKWFMEEIAYDITSHYPLPPKNVDWGEIRGFETAYCIDSMGKTNGGFVELGPCHR
MGGNQLFRINEANQLMQYDQCLTKGADGSKVMITHCNLNEFKEWQYFKNLHRFTHIPSGKCLDRSEVLHQVFI
SNCDSSKTTQKWEMNNIHSV* (SEQ ID NO: 109)

Please replace the paragraph beginning at page 62, line 30 with the following:

T8 LECTIN DNA sequence

GACGTTTCTTCCAGAATGGCACTCCGGGAAAAACTGAAATGTAAAACTTTTGACTGGTACCTGAAAAATGTTT
ATCCACTCTTGAAGCCACTCCACACCATCGTGGGCTATGGAAGAATGAAAAACCTATTGGATGAAAATGTCTG
CTTGGATCAGGGACCCGTTCCAGGCAACACCCCATCATGTATTACTGCCATGAATTCAGCTCACAGAATGTC
TACTATCACCTAACTGGGGAGCTCTATGTGGGACAACTGATTGCAGAGGCCAGTGCTAGTGATCGCTGCCTGA
CAGACCCTGGCAAGGCGGAGAAGCCCACCTTAGAACCATGCTCCAAGGCAGCTAAGAATAGACTGCATATATA
TTGGGATTTTAAACCGGGAGGAGCTGTCATAAACAGAGATACCAAGCGGTGTCTGGAGATGAAGAAGGATCTT
TTGGGTAGCCACGTGCTTGTGCTCCAGACCTGTAGCACGCAAGTGTGGGAAATCCAGCACACTGTCAGAGACT
GGGGTCAGACCAACAGCCAGTGA// (SEQ ID NO: 110)

Please replace the paragraph beginning at page 62, line 42 with the following:

T8 LECTIN Amino acid sequence

FGDVSSRMALREKLKCKTFDWYLKNVYPLLKPLHTIVGYGRMKNLLDENVCLDQGPVPGNTPIMYYCHEFSSQ
NVYYHLTGELYVGQLIAEASASDRCLTDPGKAEKPTLEPCSKAAKNRLHIYWDFKPGGAVINRDTKRCLEMKK
DLLGSHVLVLQTCSTQVWEIQHTVRDWGQTNSQ// (SEQ ID NO: 111)

Please replace the paragraph beginning at page 63, line 5 with the following (please

note that the text on page 63, line 14 "TGA-stop" has not been added by way of this

amendment. This text was underlined and bolded in the specification as filed and it

should be underlined in the unmarked version of this paragraph):

T9 LECTIN DNA sequence

TTCGGGGACGTGTCTGAGAGGCTGGCCCTGCGTCAGAGGCTGAAGTGTCGCAGCTTCAAGTGGTACCTGG
AGAACGTGTACCCGGAGATGAGGGTCTACAACAACACCCTCACGTACGGAGAGGTGAGAAACAGCAAAGC
CAGTGCCTACTGTCTGGACCAGGGAGCGGAGGACGGCGACCGGGCGATCCTCTACCCCTGCCACGGGATG
TCCTCCCAGCTGGTGCGGTACAGCGCTGACGGCCTGCTGCAGCTGGGGCCTCTGGGCTCCACAGCCTTCT
TGCCTGACTCCAAGTGTCTGGTGGATGACGGCACGGGCCGCATGCCCACCCTGAAGAGGTGTGAGGATGT
GGCGCGGCCAACACAGCGGCTGTGGGACTTCACCCAGAGTGGCCCCATTGTGAGCCGGGCCACGGGCCGC
TGCCTGGAGGTGGAGATGTCCAAAGATGCCAACTTTGGGCTCCGGCTGGTGGTACAGAGGTGCTCGGGGC
AGAAGTGGATGATCAGAAACTGGATCAAACACGCACGGCAC<u>TGA-stop</u> (SEQ ID NO: 112)

Please replace the paragraph beginning at page 63, line 16 with the following:

T9 LECTIN Amino acid sequence

FGDVSERLALRQRLKCRSFKWYLENVYPEMRVYNNTLTYGEVRNSKASAYCLDQGAEDGDRAILYPCHGMSSQ
LVRYSADGLLQLGPLGSTAFLPDSKCLVDDGTGRMPTLKRCEDVARPTQRLWDFTQSGPIVSRATGRCLEVEM
SKDANFGLRLVVQRCSGQKWMIRNWIKHARH* (SEQ ID NO: 113)

Please replace the paragraph beginning at page 63, line 27 with the following:

T10 LECTIN DNA sequence

GCTGGGGATGTCGCAGTCCAGAAAAAGCTCCGCAGCTCCCTTAACTGCAAGAGTTTCAAGTGGTTTATGA
CGAAGATAGCCTGGGACCTGCCCAAATTCTACCCACCCGTGGAGCCCCCGGCTGCAGCTTGGGGGGAGAT
CCGAAATGTGGGCACAGGGCTGTGTGCAGACACAAAGCACGGGGCCTTGGGCTCCCCACTAAGGCTAGAG
GGCTGCGTCCGAGGCCGTGGGGAGGCTGCCTGGAACAACATGCAGGTATTCACCTTCACCTGGAGAGAGG
ACATCCGGCCTGGAGACCCCCAGCACACCAAGAAGTTCTGCTTTGATGCCATTTCCCACACCAGCCCTGT
CACGCTGTACGACTGCCACAGCATGAAGGGCAACCAGCTGTGGAAATACCGCAAAGACAAGACCCTGTAC
CACCCTGTCAGTGGCAGCTGCATGGACTGCAGTGAAAGTGACCATAGGATCTTCATGAACACCTGCAACC
CATCCTCTCTCACCCAGCAGTGGCTGTTTGAACACACCAACTCAACAGTCTTGGAAAAATTCAATAGGAA
CTGA (SEQ ID NO: 114)

Please replace the paragraph beginning at page 63, line 37 with the following:

T10 LECTIN Amino acid sequence

AGDVAVQKKLRSSLNCKSFKWFMTKIAWDLPKFYPPVEPPAAAWGEIRNVGTGLCADTKHGALGSPLRLEGCV
RGRGEAAWNNMQVFTFTWREDIRPGDPQHTKKFCFDAISHTSPVTLYDCHSMKGNQLWKYRKDKTLYHPVSGS
CMDCSESDHRIFMNTCNPSSLTQQWLFEHTNSTVLEKFNRN* (SEQ ID NO: 115)

Please replace the paragraph beginning at page 63, line 47 with the following:

T11 LECTIN DNA sequence

TGCAATATCAGTGAGCGTGTGGAACTGAGAAAGAAGTTGGGCTGTAAATCATTTAAATGGTATTTGGATA
ATGTATACCCAGAGATGCAGATATCTGGGTCCCACGCCAAACCCCAACAACCCATTTTTGTCAATAGAGG
GCCAAAACGACCCAAAGTCCTTCAACGTGGAAGGCTCTATCACCTCCAGACCAACAAATGCCTGGTGGCC
CAGGGCCGCCCAAGTCAGAAGGGAGGTCTCGTGGTGCTTAAGGCCTGTGACTACAGTGACCCAAATCAGA
TCTGGATCTATAATGAAGAGCATGAATTGGTTTTAAATAGTCTCCTTTGTCTAGATATGTCAGAGACTCG
CTCATCAGACCCGCCACGGCTCATGAAATGCCACGGGTCAGGAGGATCCCAGCAGTGGACCTTTGGGAAA
AACAATCGGCTATACCAGGTGTCGGTTGGACAGTGCCTGAGAGCAGTGGATCCCCTGGGTCAGAAGGGCT
CTGTCGCCATGGCGATCTGCGATGGCTCCTCTTCACAGCAGTGGCATTTGGAAGGTTAA (SEQ ID
NO: 116)

Please replace the paragraph beginning at page 64, line 9 with the following:

T11 LECTIN Amino acid sequence

NISERVELRKKLGCKSFKWYLDNVYPEMQISGSHAKPQQPIFVNRGPKRPKVLQRGRLYHLQTNKCLVAQGRP
SQKGGLVVLKACDYSDPNQIWIYNEEHELVLNSLLCLDMSETRSSDPPRLMKCHGSGGSQQWTFGKNNRLYQV
SVGQCLRAVDPLGQKGSVAMAICDGSSSQQWHLEG* (SEQ ID NO: 117)

Please replace the paragraph beginning at page 64, line 20 with the following:

T12 LECTIN DNA sequence

TGGGATGTGACAGAGAGGAAGCAGCTCCGGGACAAGCTCCAGTGTAAAGACTTCAAGTGGTTCTTGGAGA
CTGTGTATCCAGAACTGCATGTGCCTGAGGACAGGCCTGGCTTCTTCGGGATGCTCCAGAACAAAGGACT
AACAGACTACTGCTTTGACTATAACCCTCCCGATGAAAACCAGATTGTGGGACACCAGGTCATTCTGTAC
CTCTGTCATGGGATGGGCCAGAATCAGTTTTTCGAGTACACGTCCCAGAAAGAAATACGCTATAACACCC
ACCAGCCTGAGGGCTGCATTGCTGTGGAAGCAGGAATGGATACCCTTATCATGCATCTCTGCGAAGAAAC
TGCCCCAGAGAATCAGAAGTTCATCTTGCAGGAGGATGGATCTTTATTTCACGAACAGTCCAAGAAATGT
GTCCAGGCTGCGAGGAAGGAGTCGAGTGACAGTTTCGTTCCACTCTTACGAGACTGCACCAACTCGGATC
ATCAGAAATGGTTCTTCAAAGAGCGCATGTTATGA (SEQ ID NO: 118)

Please replace the paragraph beginning at page 64, line 31 with the following:

T12 LECTIN Amino acid sequence

DVTERKQLRDKLQCKDFKWFLETVYPELHVPEDRPGFFGMLQNKGLTDYCFDYNPPDENQIVGHQVILYL
CHGMGQNQFFEYTSQKEIRYNTHQPEGCIAVEAGMDTLIMHLCEETAPENQKFILQEDGSLFHEQSKKCV
QAARKESSDSFVPLLRDCTNSDHQKWFFKERML* (SEQ ID NO: 119)

Please replace the paragraph beginning at page 64, line 41 with the following:

T13 LECTIN DNA sequence

TCTGAGAAGCCAGACTGCATGGAACGCTTGCAGCTGCAAAGGAGACTGGGTTGTCGGACATTCCACTGGT
TTCTGGCTAATGTCTACCCTGAGCTGTACCATCTGAACCCAGGCCCAGTTTCTCTGGAAAGCTCCACAA
CACTGGACTTGGGCTCTGTGCAGACTGCCAGGCAGAAGGGGACATCCTGGGCTGTCCCATGGTGTTGGCT
CCTTGCAGTGACAGCCGGCAGCAACAGTACCTGCAGCACACCAGCAGGAAGGAGATTCACTTTGGCAGCC
CACAGCACCTGTGCTTTGCTGTCAGGCAGGAGCAGGTGATTCTTCAGAACTGCACGGAGGAAGGCCTGGC
CATCCACCAGCAGCACTGGGACTTCCAGGAGAATGGGATGATTGTCCACATTCTTTCTGGGAAATGCATG
GAAGCTGTGGTGCAAGAAAACAATAAAGATTTGTACCTGCGTCCGTGTGATGGAAAAGCCCGCCAGCAGT
GGCGTTTTGACCAGATCAATGCTGTGGATGAACGATGA (SEQ ID NO: 120)

Please replace the paragraph beginning at page 65, line 4 with the following:

T13 LECTIN Amino acid sequence

EKPDCMERLQLQRRLGCRTFHWFLANVYPELYPSEPRPSFSGKLHNTGLGLCADCQAEGDILGCPMVLAP
CSDSRQQQYLQHTSRKEIHFGSPQHLCFAVRQEQVILQNCTEEGLAIHQQHWDFQENGMIVHILSGKCME
AVVQENNKDLYLRPCDGKARQQWRFDQINAVDER* (SEQ ID NO: 121)

Please replace the paragraph beginning at page 65, line 14 with the following:

T14 LECTIN DNA sequence

TATGGAGATGTGTCAGTCAGAAAAACACTAAGAGAAAATCTGAAGTGTAAGCCCTTTTCTTGGTACCTAG
AAAACATCTATCCGGACTCCCAGATCCCAAGACGTTATTACTCACTTGGTGAGATAAGAAATGTTGAAAC
CAATCAGTGTTTAGACAACATGGGCCGCAAGGAAAATGAAAAGTGGGTATATTCAACTGTCATGGTATG
GGAGGAAATCAGGTATTTTCTTACACTGCTGACAAAGAAATCCGAACCGATGACTTGTGCTTGGATGTTT
CTAGACTCAATGGACCTGTAATCATGTTAAAATGCCACCATATGAGAGGAAATCAGTTATGGGAATATGA
TGCTGAGAGACTCACGTTGCGACATGTTAACAGTAACCAATGTCTCGATGAACCTTCTGAAGAAGACAAA
ATGGTGCCTACAATGCAGGACTGTAGTGGAAGCAGATCCCAACAGTGGCTGCTAAGGAACATGACCTTGG
GCACATGA (SEQ ID NO: 122)

Please replace the paragraph beginning at page 65, line 24 with the following:

T14 LECTIN Amino acid sequence

YGDVSVRKTLRENLKCKPFSWYLENIYPDSQIPRRYYSLGEIRNVETNQCLDNMGRKENEKVGIFNCHGMGGN
QVFSYTADKEIRTDDLCLDVSRLNGPVIMLKCHHMRGNQLWEYDAERLTLRHVNSNQCLDEPSEEDKMVPTMQ
DCSGSRSQQWLLRNMTLGT* (SEQ ID NO: 123)

Please replace the paragraph beginning at page 65, line 34 with the following:

T15 LECTIN DNA sequence

TCGGGAATGTTGAGAGCAGATTGGACCTGAGGAAGAATCTGCGCTGCCAGAGCTTCAAGTGGTACCTGGA
GAATATCTACCCTGAACTCAGCATCCCCAAGGAGTCCTCCATCCAGAAGGGCAATATCCGACAGAGACAG
AAGTGCCTGGAATCTCAAAGGCAGAACAACCAAGAAACCCCAAACCTAAAGTTGAGCCCCTGTGCCAAGG
TCAAAGGCGAAGATGCAAAGTCCCAGGTATGGGCCTTCACATACACCCAGAAGATCCTCCAGGAGGAGCT
GTGCCTGTCAGTCATCACCTTGTTCCCTGGCGCCCCAGTGGTTCTTGTCCTTTGCAAGAATGGAGATGAC
CGACAGCAATGGACCAAAACTGGTTCCCACATCGAGCACATAGCATCCCACCTCTGCCTCGATACAGATA
TGTTCGGTGATGGCACCGAGAACGGCAAGGAAATCGGCGTCAACCCATGTGAGTCCTCACTCATGAGCCA
GCACTGGGACATGGTGAGTTCTTGAG (SEQ ID NO: 124)

Please replace the paragraph beginning at page 65, line 45 with the following:

T15 LECTIN Amino acid sequence

FGNVESRLDLRKNLRCQSFKWYLENIYPELSIPKESSIQKGNIRQRQKCLESQRQNNQETPNLKLSPCAK
VKGEDAKSQVWAFTYTQKILQEELCLSVITLFPGAPVVLVLCKNGDDRQQWTKTGSHIEHIASHLCLDTD
MFGDGTENGKEIGVNPCESSLMSQHWDMVSS* (SEQ ID NO: 125)

Please replace the paragraph beginning at page 66, line 6 with the following:

T16 LECTIN DNA sequence

AGTGTGGCTACGCGGATAGAGCAGAGGAAGAAGATGAACTGCAAGTCCTTCCGCTGGTACCTGGAGAACGTCT
ACCCAGAGCTCACGGTCCCCGTGAAGGAAGCACTCCCCGGCATCATTAAGCAGGGGGTGAACTGCTTAGAATC
TCAGGGCCAGAACACAGCTGGTGACTTCCTGCTTGGAATGGGGATCTGCAGAGGGTCTGCCAAGAACCCGCAG
CCCGCCCAGGCATGGCTGTTCAGTGACCACCTCATCCAGCAGCAGGGGAAGTGCCTGGCTGCCACCTCCACCT
TAATGTCCTCCCCTGGATCCCCAGTCATACTGCAGATGTGCAACCCTAGAGAAGGCAAGCAGAAATGGAGGAG
AAAAGGATCTTTCATCCAGCATTCAGTCAGTGGCCTCTGCCTGGAGACAAAGCCTGCCCAGCTGGTGACCAGC
AAGTGTCAGGCTGACGCCCAGGCCCAGCAGTGGCAGCTGTTGCCACACACATGA (SEQ ID NO: 126)

Please replace the paragraph beginning at page 66, line 6 with the following:

T16 LECTIN Amino acid sequence

SVATRIEQRKKMNCKSFRWYLENVYPELTVPVKEALPGIIKQGVNCLESQGQNTAGDFLLGMGICRGSAKNP
QPAQAWLFSDHLIQQQGKCLAATSTLMSSPGSPVILQMCNPREGKQKWRRKGSFIQHSVSGLCLETKPAQLV
TSKCQADAQAQQWQLLPHT* (SEQ ID NO: 127)

After page 95 and before the claims, please insert a paper copy of the Sequence

Listing.